

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
612/733-1110
Duns No.: 00-617-3082

Industrial Hygiene

APR 3 1990

00-48
607

MATERIAL SAFETY DATA SHEET

3M

DIVISION: ADHESIVES, COATINGS AND SEALERS

TRADE NAME:

3M Super 77 Spray Adhesive
3M I.D. NUMBER: 62-4434-3725-6 62-4434-3726-4 62-4434-4030-0 62-4434-4935-0
62-4434-4936-8

ISSUED: DECEMBER 30, 1989

SUPERSEDES: AUGUST 9, 1989

DOCUMENT: 10-3312-5

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE VALUE UNIT	LIMITS TYPE AUTH
n-hexane	110-54-3	10.0 - 20.0	50 ppm	TWA ACGIH
hexane (other isomers)	none	10.0 - 20.0	NONE NONE	NONE NONE
cyclohexane	110-82-7	10.0 - 20.0	300 ppm	TWA ACGIH
propane	74-98-6	10.0 - 20.0	1000 ppm	TWA OSHA
isobutane	75-28-5	10.0 - 20.0	NONE NONE	NONE NONE
dimethyl ether	115-10-6	10.0 - 20.0	1000 ppm	TWA CMRG
non-volatile components - N.J. Trade Secret (T.S.) Registry No. 04499600-5452P ++	T.S.	1.0 - 30.0	NONE NONE	NONE NONE

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

NOTE: ++ rosin, synthetic polymer, resin and antioxidant.

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

cyclohexane

2. PHYSICAL DATA

BOILING POINT:..... Compressed gas
VAPOR PRESSURE:..... Compressed gas
VAPOR DENSITY: 2.97 Air = 1
EVAPORATION RATE:..... 1.90 Ether = 1
SOLUBILITY IN WATER: Nil
SP. GRAVITY:..... 0.702 Water = 1
PERCENT VOLATILE: 75.00 %
VOLATILE ORGANICS: 525.00 gm/l
pH: N/A
VISCOSITY: N/A
APPEARANCE AND ODOR: Light cream colored, liquid in aerosol, sweet/fruity odor.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... -50 F (Tag Closed C./Propellant)
FLAMMABLE LIMITS - LEL: N/A
FLAMMABLE LIMITS - UEL: Flamm. Gas
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
CO2, foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing

Abbreviations: N/D - Not Determined N/A - Not Applicable

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

apparatus when fighting fires involving this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Extremely Flammable. (Treat as flammable pressurized container).
Overheated, closed container adjacent to fire could explode due to
pressure buildup.
NFPA-HAZARD-CODES: HEALTH 3 FIRE 4 REACTIVITY 0
UNUSUAL REACTION HAZARD: NONE

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
CONDITIONS TO AVOID: Do not store at temperatures above 120F. Do
not puncture or incinerate container.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2 and smoke particles when subjected to excessive heat or
flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
If cans rupture: Extinguish all ignition sources. Ventilate area.
Observe precautions from other sections. Contain spill. Cover with
absorbent materials as needed. Collect spilled material. Place in a
U.S. Dept. of Transportation-approved metal container, and seal.

RECOMMENDED DISPOSAL:
Incinerate absorbed and partially full cans after mixing with
flammable material in a permitted hazardous waste facility. Do not
puncture or burn cans in household incinerator. Dispose of empty
cans in a sanitary landfill. Disposal should be in accordance with
applicable regulations. U.S. EPA HAZARDOUS WASTE NUMBER: D001
(Ignitable).

ENVIRONMENTAL DATA:
Volatile Organic Compound (VOC):
Maximum VOC = 525 grams/liter.
Maximum VOC minus Water minus Exempt Solvents = 525 grams/liter.
VOC's were calculated according to Rule 443.1 of the South Coast
Air Quality Management District (SCAQMD).

SARA HAZARD CLASS:
FIRE HAZARD: Yes **PRESSURE:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

6. SUGGESTED FIRST AID

EYE CONTACT:
Immediately flush eyes with plenty of water for at least 10 minutes.
Call a physician.

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BOE-C6-0229764

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6. SUGGESTED FIRST AID (continued)

SKIN CONTACT:

Wash affected area with soap and water.

INHALATION:

Move to uncontaminated air. Call a physician.

IF SWALLOWED:

If swallowed, do not induce vomiting. Call a physician immediately.

OTHER FIRST AID:

NONE

7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. Keep product and its vapors away from heat, sparks, flames and other sources of ignition. Extinguish and do not ignite any flame in the immediate work area. The vapors released by this product can easily be ignited and burn explosively. Avoid prolonged breathing vapor and mist (spray particulate). Use only in areas with sufficient ventilation to maintain vapor/spray concentrations below recommended exposure limits. Do not use in confined areas or areas with little or no air movement. Local exhaust ventilation should be used if large quantities are sprayed in a short period of time. Prevent eye and skin contact. Wear safety glasses and impervious gloves when handling product. Do not take internally. Intentional misuse by deliberately concentrating and inhaling or swallowing product may be fatal. Do not store at temperatures above 120F. Do not puncture or burn container in household incinerator. Keep out of the reach of children.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	---- EXPOSURE LIMITS ----			
	VALUE	UNIT	TYPE	AUTH
n-hexane	180	mg/m3	TWA	ACGIH
n-hexane	500	ppm	TWA	OSHA
n-hexane	1800	mg/m3	TWA	OSHA
cyclohexane	1050	mg/m3	TWA	ACGIH
cyclohexane	300	ppm	TWA	OSHA
cyclohexane	1050	mg/m3	TWA	OSHA
propane	1800	mg/m3	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: May cause eye irritation upon direct contact.

SKIN CONTACT: Prolonged and repeated skin contact may defat skin

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8. HEALTH HAZARD DATA

(continued)

leading to irritation and dermatitis. n-Hexane may be absorbed through the skin in harmful amounts.

INHALATION: Vapor overexposure may cause respiratory system irritation and temporary nervous system impairment (light-headedness). Symptoms may include weakness, dizziness, headache, nausea and facial numbness. There are reported instances where exposure to n-hexane vapor concentrations in excess of 800 ppm caused peripheral nerve damage. Gross overexposure such as is caused by intentional inhalation of concentrated vapors in a confined vessel can result in serious damage including asphyxiation and death.

INGESTION: Accidental ingestion is unlikely from an aerosol container. Intentional concentration and swallowing the liquid product may cause severe digestive system irritation. Symptoms may include nausea, diarrhea and vomiting. Solvent aspiration into the lungs as a result of vomiting may cause lung damage, which can be fatal.

SECTION CHANGE DATES

ENVIRON. DATA

SECTION CHANGED SINCE AUGUST 9, 1989 ISSUE

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The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.